

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S76	2	("6001664").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/11 14:31
S77	4	'light emitting semiconductor package'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/11 15:08
S81	2	("5805757").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/11/14 06:33
S82	16	@ad<="20010101" and 'light emitting' and 'hollow caps'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 10:31
S83	86	@ad<="20010101" and 'light emitting devices' and 'hermetic'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 10:23
S84	952	@ad<="20030909" and (257/82).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:45
S85	554	@ad<="20030909" and (257/81).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 06:25
S86	222	@ad<="20030909" and (257/91).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 06:26
S87	319	@ad<="20030909" and (257/95).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 06:26
S88	3062	@ad<="20030909" and (257/98-99).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 11:15

## EAST Search History

S89	355	@ad<="20030909" and (257/e33.067).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:45
S90	275	@ad<="20030909" and (257/e25.032).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 06:27
S91	359	@ad<="20030909" and (257/e33.068).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 06:28
S92	275	@ad<="20030909" and (257/e25.032).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 06:29
S93	2045	@ad<="20030909" and (257/676).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 06:29
S94	338	@ad<="20030909" and (438/110).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 06:31
S95	581	@ad<="20030909" and (438/22).ccls. and 'optical'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 08:35
S96	626	@ad<="20030909" and (257/680).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 06:31
S97	368	@ad<="20030909" and (438/25-27).ccls. and 'optical'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 08:36
S98	550	@ad<="20030909" and (438/29).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 06:32
S99	2330	@ad<="20030909" and 'LED' same 'packaging'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 09:26

## EAST Search History

S10 0	23	@ad<="20030909" and 'LED' same 'packaging' same 'substrate' with 'metal'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 10:23
S10 1	1	"6268660".PN.	USPAT; USOCR	OR	ON	2004/11/14 06:42
S10 2	1	"6060729".PN.	USPAT; USOCR	OR	ON	2004/11/14 06:42
S10 3	1	"5024966".PN.	USPAT; USOCR	OR	ON	2004/11/14 06:43
S10 4	1	"5024966".PN.	USPAT; USOCR	OR	ON	2004/11/14 06:44
S10 5	19	@ad<="20030909" and 'LED' same 'packaging' and 'substrate' same 'metal' with 'cavity'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 06:55
S10 6	144	@ad<="20030909" and 'packaged' with 'LED' and 'metal' with 'substrate'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 07:04
S10 7	128	@ad<="20030909" and (257/98-99).ccls. and 'substrate' with 'cavity'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 07:41
S10 9	22	@ad<="20030909" and 'Light emitting diode' same 'surface' with 'mounting' and 'cavity' with 'substrate'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 08:21
S11 0	264	@ad<="20030909" and 'SMD' with 'LED'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 10:54
S11 1	1	"6525347".PN.	USPAT; USOCR	OR	ON	2004/11/14 08:22
S11 2	1	"6132067".PN.	USPAT; USOCR	OR	ON	2004/11/14 08:23
S11 3	1	"5762527".PN.	USPAT; USOCR	OR	ON	2004/11/14 08:23
S11 4	1	"5057735".PN.	USPAT; USOCR	OR	ON	2004/11/14 08:23
S11 5	85	@ad<="20030909" and 'LED' same 'package' and 'metal substrate'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 08:56

## EAST Search History

S11 6	23	@ad<="20030909" and 'Light emitting diode' same 'packaging' same 'cavity'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 09:40
S11 7	26	@ad<="20030909" and 'Light emitting diode' same 'VCSEL' same 'heat'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 09:49
S11 8	284	@ad<="20030909" and 'Light emitting diode' same 'mounting' same 'heat'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 11:25
S11 9	37	@ad<="20030909" and 'light emitting diode' same 'metal' with 'base' same 'heat'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 10:43
S12 0	4	@ad<="20030909" and 'light emitting diode' same 'mounted' same 'metal core'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 10:43
S12 1	14	@ad<="20030909" and 'Light emitting diode' same 'heat' and 'metal block'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 11:31
S12 2	54	@ad<="20030909" and 'Light emitting diode' with 'mounting' same 'heat' and 'base'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 15:17
S12 3	555	'agilent technology' and 'light emitting'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 11:26
S12 4	4	'agilent technology' same 'light-emitting diode'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 11:26
S12 5	109	'agilent technology' and 'light-emitting diode'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 11:26
S12 6	51	@ad<="20030909" and ('Light emitting diode' or 'LED') and 'cup' and 'metal' adj1 'base'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 11:36

## EAST Search History

S12 7	17	@ad<="20030909" and 'light emitting diode' and 'mounting substrate' with 'metal'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/14 11:37
S12 8	15	@ad<="20030909" and 'LED' same 'package' and 'len' with 'retainer'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 10:27
S12 9	24	@ad<="20030909" and 'LED' same 'package' and 'len' same 'retainer'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 10:30
S13 1	27	@ad<="20010101" and 'light emitting diode' same 'len' same 'retainer'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 10:32
S13 2	45	@ad<="20030909" and 'light emitting diode' same 'len' same 'retainer'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 10:32
S13 3	1	@ad<="20010101" and 'light emitting diode' same 'substrate' same 'len' same 'retainer'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 10:33
S13 4	136	("20030032212" "20030067264" "20030153861" "20030173575" "2004041222" "20040041757" "20040056260" "20040079957" "20040095738" "20040222433" "4042552" "4107238" "4141941" "4562018" "4826424" "4918497" "4935665" "4966862" "5024966" "5027168" "5087949" "5110278" "5143660" "5210051" "5277840" "5298768" "5338944" "5374668" "5393993" "5416342" "5523589" "5604135" "5631190" "5739554" "5753730" "5813753" "5851063" "5858278" "5882553" "5912477" "5959316" "5968422" "6060729" "6066861" "6069440" "6120600" "6156242" "6177688" "6184544" "6187606" "6201262" "6252254" "6329676" "6373188" "6383417" "6391231" "6404125" "6498355" "6531328" "6562643" "6639356" "6686609" "6707069" "6744077" "6783362" "6791151").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 15:08
S13 5	1	"6476549".PN.	USPAT; USOCR	OR	ON	2005/02/17 15:11
S13 6	1	"6268660".PN.	USPAT; USOCR	OR	ON	2005/02/17 15:12

## EAST Search History

S13 7	1	@ad<="20030909" and 'Light emitting diode' with 'mounting' and 'aluminum' same 'base' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 15:23
S13 8	97	@ad<="20030909" and 'Light emitting diode' and 'aluminum' same 'base' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 15:28
S13 9	42	@ad<="20030909" and 'Light emitting diode' and 'aluminum' with 'base' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 10:14
S14 0	2	@ad<="20030909" and 'Light emitting diode' and 'aluminum block' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 15:32
S14 1	2	@ad<="20030909" and 'LED' and 'aluminum block' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 15:32
S14 2	0	@ad<="20030909" and 'LED' and 'metal block' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 15:32
S14 3	371	@ad<="20030909" and 'LED' and 'metal block'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 15:32
S14 4	4	@ad<="20030909" and 'LED' and 'metal block' same 'oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 15:33
S14 5	10	@ad<="20030909" and 'Light emitting diode' and 'aluminum substrate' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 08:44
S14 6	1	"6359288".PN.	USPAT; USOCR	OR	ON	2005/02/17 15:42
S14 7	1	"6231744".PN.	USPAT; USOCR	OR	ON	2005/02/17 15:42
S14 8	1	"6177291".PN.	USPAT; USOCR	OR	ON	2005/02/17 15:42

## EAST Search History

S14 9	2	("6455930").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/18 10:53
S15 0	1	"6172416".PN.	USPAT; USOCR	OR	ON	2005/02/22 08:32
S15 1	1	"6146025".PN.	USPAT; USOCR	OR	ON	2005/02/22 08:32
S15 2	1	"6097857".PN.	USPAT; USOCR	OR	ON	2005/02/22 08:32
S15 3	1	"6055151".PN.	USPAT; USOCR	OR	ON	2005/02/22 08:33
S15 4	1	"6023413".PN.	USPAT; USOCR	OR	ON	2005/02/22 08:33
S15 5	1822	@ad<="20030909" and (257/99). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 08:35
S15 6	1067	@ad<="20030909" and (438/22). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 08:35
S15 7	440	@ad<="20030909" and (438/25-26).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 08:36
S15 8	2	("6329676").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/22 08:37
S15 9	2	("6373188").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/22 08:38
S16 0	2	("6066861").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/22 08:38
S16 1	2	"2003153861"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 08:39

## EAST Search History

S16 2	1	'wo 200161764'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 08:40
S16 3	1	"6268660".PN.	USPAT; USOCR	OR	ON	2005/02/22 08:41
S16 4	1	"6060729".PN.	USPAT; USOCR	OR	ON	2005/02/22 08:42
S16 5	1	"5024966".PN.	USPAT; USOCR	OR	ON	2005/02/22 08:42
S16 6	1	"6268660".PN.	USPAT; USOCR	OR	ON	2005/02/22 08:43
S16 7	1	"6081026".PN.	USPAT; USOCR	OR	ON	2005/02/22 08:44
S16 8	1	"6064113".PN.	USPAT; USOCR	OR	ON	2005/02/22 08:44
S16 9	232	@ad<="20030909" and 'LED' and 'base' with 'aluminum' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:02
S17 0	42	@ad<="20030909" and 'Light emitting diode' and 'base' with 'aluminum' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 08:59
S17 1	6	@ad<="20030909" and 'packaged' with 'LED' and 'base' with 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 08:48
S17 2	25	@ad<="20030909" and 'packaged' with 'LED' and 'base' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 08:53
S17 3	11	@ad<="20030909" and 'packaged LED' and 'block' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 08:54
S17 4	92	@ad<="20030909" and 'LED' same 'package' and 'metal substrate'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:18
S17 5	8	@ad<="20030909" and 'Light emitting device' and 'base' with 'aluminum' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 10:31



## EAST Search History

S17 6	54	@ad<="20030909" and 'SMD' and 'LED' and 'package' and 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:19
S17 7	10	@ad<="20030909" and 'SMD' same 'aluminum' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:19
S17 8	1044	@ad<="20030909" and (257/79). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:28
S17 9	31	@ad<="20030909" and 'light emitting device' and 'surface mounting' and 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 10:16
S18 0	21	@ad<="20030909" and 'light emitting device' and 'surface mounted' and 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:54
S18 1	0	@ad<="20030909" and 'light emitting device' and 'surface mounting' and 'metal block' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:32
S18 2	214	@ad<="20030909" and (257/e33.057).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:45
S18 3	393	@ad<="20030909" and (361/600). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:46
S18 4	102	@ad<="20030909" and (361/706). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:46
S18 5	834	@ad<="20030909" and (361/707). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:46
S18 6	1	@ad<="20030909" and 'surface mounted' with 'light emitting device' and 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:55

## EAST Search History

S18 7	6	@ad<="20030909" and 'surface mounting' with 'light emitting device' and 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:55
S18 8	540	@ad<="20030909" and 'surface mounted' and 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:56
S18 9	91	@ad<="20030909" and 'surface mounting' with 'device' and 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 09:57
S19 0	149	@ad<="20030909" and 'surface mounted' with 'device' and 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 10:17
S19 1	359	@ad<="20030909" and 'Light emitting diode' and 'aluminum' with 'substrate' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 10:14
S19 2	12	@ad<="20030909" and 'light emitting device' and 'surface mounting' and 'aluminum' with 'substrate' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 10:16
S19 3	76	@ad<="20030909" and 'surface mounted' with 'device' and 'aluminum' with 'substrate' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 10:21
S19 4	29	@ad<="20030909" and 'surface mounted' with 'device' and 'aluminum' with 'base' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 10:22
S19 5	17	@ad<="20030909" and 'surface mounting' with 'device' and 'aluminum' with 'base' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 10:22
S19 6	46	@ad<="20030909" and 'Light emitting device' with 'package' and 'aluminum' and 'aluminum oxide' and 'heat'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 11:53
S19 7	1	"5857767".PN.	USPAT; USOCR	OR	ON	2005/02/22 10:37
S19 8	1	"5119174".PN.	USPAT; USOCR	OR	ON	2005/02/22 10:37

## EAST Search History

S19 9	12	chen-hsing.in. and 'solidlite'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 15:31
S20 0	146	'opto tech'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 11:15
S20 1	36	'opto tech corporation'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 11:15
S20 2	11	@ad<="20030909" and 'mounting substrate' and 'light emitting device' and 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 11:58
S20 3	266	@ad<="20030909" and 'mounting substrate' and 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 11:59
S20 4	36	@ad<="20030909" and 'mounting substrate' and 'aluminum' and 'aluminum oxide' and 'LED'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 11:59
S20 5	1	@ad<="20010101" and 'light emitting device' and 'aluminum block' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 10:55
S20 6	324	@ad<="20010101" and 'light emitting device' and 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 10:29
S20 7	5	@ad<="20010101" and 'light emitting device' and 'aluminum base' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 10:55
S20 8	1	@ad<="20010101" and 'light emitting device' and 'metal base' with 'aluminum'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 10:36
S20 9	101	@ad<="20010101" and 'light emitting device' and 'base' with 'aluminum'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 10:36

## EAST Search History

S21 0	4	(("6455930") or ("5258236")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/18 10:53
S21 1	103	@ad<="20030909" and 'SMD LED'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/30 16:41
S21 2	5	@ad<="20030909" and 'light emitting device' and 'aluminum block' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 10:55
S21 3	5	@ad<="20030909" and 'light emitting device' and 'aluminum base' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 11:32
S21 4	707	@ad<="20030909" and 'LED' and 'package' and 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 11:03
S21 6	130	@ad<="20030909" and 'LED' and 'package' and 'substrate' with 'aluminum' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 11:24
S21 7	48	@ad<="20030909" and 'LED' same 'package' and 'substrate' with 'aluminum' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 11:04
S21 9	1	"5857767".PN.	USPAT; USOCR	OR	ON	2005/04/18 11:08
S22 0	1	"5119174".PN.	USPAT; USOCR	OR	ON	2005/04/18 11:08
S22 1	1	"4935665".PN.	USPAT; USOCR	OR	ON	2005/04/18 11:10
S22 2	1	"4729076".PN.	USPAT; USOCR	OR	ON	2005/04/18 11:12
S22 3	2	@ad<="20030909" and 'LED' and 'cavity' and 'aluminum base' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 11:24
S22 4	1	@ad<="20030909" and 'LED' and 'cavity' and 'aluminum block' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 11:24

## EAST Search History

S22 5	1	@ad<="20030909" and 'light emitting device package' and 'substrate' same 'aluminum' with 'silicon'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 11:34
S22 6	591	@ad<="20030909" and 'light emitting device' and 'substrate' same 'aluminum' with 'silicon'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 11:35
S22 7	486	@ad<="20030909" and 'thermal conductivity' and 'LED' and 'substrate' same 'aluminum' with 'silicon'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 11:36
S22 8	75	@ad<="20030909" and 'substrate' same 'thermal conductivity' same 'aluminum' with 'silicon' and 'LED'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 15:59
S22 9	8	@ad<="20030909" and 'Surface mounting' and 'light emitting diode' and 'thermal conductivity' same 'aluminum' same 'silicon' same 'oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 12:31
S23 0	1	"6345903".PN.	USPAT; USOCR	OR	ON	2005/04/18 11:52
S23 1	1	"6187610".PN.	USPAT; USOCR	OR	ON	2005/04/18 11:53
S23 2	1	"6130111".PN.	USPAT; USOCR	OR	ON	2005/04/18 11:53
S23 3	17	"6345903"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 12:32
S23 4	4	((("6345903") or ("6396082")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/18 12:32
S23 7	5	@ad<="20030909" and 'SMT' with 'LED' and 'alumina'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 12:43
S23 9	1714	@ad<="20030909" and 'insulator' with 'aluminum' with 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 12:45

## EAST Search History

S24 1	2	@ad<="20030909" and 'aluminum' with 'anodyne'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 12:46
S24 2	18070	@ad<="20030909" and 'aluminum' with 'oxidation'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 12:48
S24 3	908	@ad<="20030909" and 'LED' and 'aluminum' with 'oxidation'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 12:46
S24 4	3918	@ad<="20030909" and 'aluminum' with 'anodic oxidation'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 12:52
S24 5	11	@ad<="20030909" and 'LED' same 'aluminum' with 'anodic oxidation'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 14:04
S24 6	27	@ad<="20030909" and 'light emitting device' and 'aluminum' with 'anodic oxidation'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 12:52
S24 7	78	@ad<="20030909" and 'light emitting diode' and 'aluminum' with 'anodic oxidation'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/18 12:52
S24 8	93	@ad<="20030909" and 'surface mounting' with 'device' and 'aluminum' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/30 16:10
S25 1	1	@ad<="20030909" and 'SMD' with 'LED' and 'alumi' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/30 16:43
S25 2	84	@ad<="20030909" and 'LED' and 'aluminum base' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/30 16:43
S25 3	89	@ad<="20030909" and 'LED' and ' metal base' and 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/30 16:43

## EAST Search History

S25 4	106	@ad<="20030909" and 'SMD LED'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 15:40
S25 5	15	@ad<="20030909" and 'SMD' same 'light emitting diode' and 'heat' with ('dissipation' or 'dispersion')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 08:42
S25 7	197	@ad<="20030909" and 'light emitting' and 'heat' with ('dissipation' or 'dispersion') and 'metal plate'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 08:43
S25 8	15	@ad<="20030909" and 'light emitting' and 'heat' with ('dissipation' or 'dispersion') and 'metal plate' same 'oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 08:44
S25 9	36	@ad<="20030909" and 'light emitting' and 'heat' with ('dissipation' or 'dispersion') and 'metal plate' same 'aluminum'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 08:44
S26 0	689	@ad<="20030909" and 'light emitting' and 'heat' with ('dissipation' or 'dispersion') and 'metal' same 'aluminum'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 08:56
S26 1	7	@ad<="20030909" and 'light emitting' and 'heat' with ('dissipation' or 'dispersion') and 'metal base' same 'aluminum'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 08:53
S26 2	214	@ad<="20030909" and 'light emitting' and 'heat' with ('dissipation' or 'dispersion') and 'metal' same 'aluminum' same 'oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 08:56
S26 3	81	@ad<="20030909" and 'light emitting' and 'heat' with ('dissipation' or 'dispersion') and 'metal' same 'aluminum' same 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 09:19
S26 4	2	"20010022565"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 09:21
S26 5	7	"6563139"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 09:21

## EAST Search History

S26 6	2	"20030189829"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 09:21
S26 7	2	"20030098459"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 13:54
S26 8	2	"10098215"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 13:55
S26 9	2	"09083018"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 13:56
S27 0	2	"08116095"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 13:56
S27 1	2	"20030189829"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 14:03
S27 2	2	"20010022565"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 14:03
S27 3	325	@ad<="20030909" and 'LED' same 'aluminum' with 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 14:05
S27 4	1	@ad<="20030909" and 'SMD' same 'LED' same 'aluminum' with 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:01
S27 5	7	@ad<="20030909" and 'SMD' and 'LED' same 'aluminum' with 'aluminum oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:01
S27 6	10	@ad<="20030909" and 'SMD' and 'LED' same 'aluminum' with 'oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 15:39



## EAST Search History

S27 7	0	@ad<="20030909" and 'SMD' and 'aluminum block' with 'oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:04
S27 8	43	@ad<="20030909" and 'SMD' and 'aluminum' with 'substrate' with 'oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:05
S27 9	1	"5857767".PN.	USPAT; USOCR	OR	ON	2005/09/13 16:13
S28 0	1	"5119174".PN.	USPAT; USOCR	OR	ON	2005/09/13 16:13
S28 1	1	"4935665".PN.	USPAT; USOCR	OR	ON	2005/09/13 16:13
S28 2	1	"4729076".PN.	USPAT; USOCR	OR	ON	2005/09/13 16:13
S28 3	44	'solidlite' and 'LED'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 15:32
S28 4	36	@ad<="20030909" and 'solidlite' and 'LED'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 15:32
S28 5	11	@ad<="20030909" and 'SMD' and 'LED' same 'aluminum' same 'oxide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 11:12
S28 6	108	@ad<="20030909" and 'SMD LED'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 11:12
S28 7	1	"6268660".PN.	USPAT; USOCR	OR	ON	2006/02/08 15:46
S28 8	1	"6060729".PN.	USPAT; USOCR	OR	ON	2006/02/08 15:46
S28 9	1	"5024966".PN.	USPAT; USOCR	OR	ON	2006/02/08 15:48
S29 0	2	("6599768").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 15:51

## EAST Search History

S29 1	265	@ad<="20030909" and 'substrate' same 'thermal conductivity' same 'aluminum' and 'LED'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/04 08:48
S29 2	59	@ad<="20030909" and 'substrate' same 'thermal conductivity' same 'aluminum' same 'plate' and 'LED'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 16:14
S29 3	125	@ad<="20030909" and 'metal' with ('substrate' or 'plate') same 'aluminum' same 'thermal conductivity' and 'LED'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 16:15
S29 5	420	@ad<="20030909" and ("surface mounting device" or "SMD") and ("light emitting device" or "LED") and (cavity or concave)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 13:12
S29 6	270	@ad<="20030909" and "substrate" same "thermal conductivity" same aluminum and "LED"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 11:11
S29 7	109	@ad<="20030909" and "SMD LED"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 11:12
S29 8	55	@ad<="20030909" and "SMD" and "LED" same aluminum	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 11:12
S29 9	226	@ad<="20030909" and ("surface mounting device" or "SMD") and ("light emitting device" or "LED") and (cavity or concave) and "thermal conductivity"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 11:13
S30 1	621	@ad<="20030909" and (257/100). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 11:15
S30 2	1969	@ad<="20030909" and (257/99). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 14:22
S30 4	498	@ad<="20030909" and (257/E33.059). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 11:22

## EAST Search History

S30 5	12	"Solidlite Corporation" and "LED"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 11:25
S30 6	47	"Solidlite" and "LED"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 11:25
S30 7	6	"KUWABARA YASUKI"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 13:14
S30 8	135	"NAKAMURA SHINOBU"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 13:15
S30 9	387	"WATANABE MASAOKI"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 13:15
S31 0	16	"NAKAMURA SHINOBU" and "LED"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 13:15
S31 1	7	"WATANABE MASAOKI" and "LED"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 13:28
S31 2	306	"Citizen Electronics" and "LED"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 13:29
S31 3	226	@ad<="20030909" and "Citizen Electronics" and "LED"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/04 08:40
S31 4	199	@ad<="20030909" and (257/99). ccls. and "recess"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 14:52
S31 5	507	@ad<="20030909" and (257/99). ccls. and (recess or cavity or concave)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/03 14:52

## EAST Search History

S31 6	2	("6876149").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/03 16:01
S31 7	20	@ad<="20030909" and "Citizen Electronics" and "SMD"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/04 08:40
S31 8	270	@ad<="20030909" and substrate same "thermal conductivity" same aluminum and "LED"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/04 08:49
S31 9	15	@ad<="20030909" and substrate same "thermal conductivity" same aluminum and "SMD"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/04 08:49